

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A purified protein polypeptide comprising a 55 Kd polypeptide (p55) ~~p177, p88, p64, p55 or p46~~ from *Neisseria gonorrhoeae*.

Claims 2-6. (Canceled)

7. (Currently Amended) ~~The polypeptide of claim 1, wherein A p55 protein has~~ having an amino acid sequence that corresponds essentially to ~~SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, or SEQ ID NO:5.~~

Claims 8-14. (Canceled)

15. (Currently Amended) A vaccine comprising an immunogenic amount of a polypeptide ~~p177, p88, p64, p55 or p46~~ from *Neisseria gonorrhoeae*, which amount is effective to immunize a susceptible female patient against gonorrhea, in combination with a physiologically acceptable, non-toxic vehicle.

Claims 16-20. (Canceled)

21. (Original) The vaccine of claim 15, wherein the polypeptide is expressed from an isolated nucleic acid sequence encoding the polypeptide.

22. (Canceled)

23. (Original) The vaccine of claim 15, which further comprises an effective amount of an immunological adjuvant.

24. (Original) The vaccine of claim 15, wherein the polypeptide is conjugated or linked to a second peptide.

25. (Original) The vaccine of claim 15, wherein the polypeptide is conjugated or linked to a polysaccharide.

Claims 26-58. (Canceled)

59. (New) A vaccine comprising an immunogenic amount of a protein having an amino acid sequence that corresponds essentially to SEQ ID NO:4 from *Neisseria gonorrhoeae*, which amount is effective to immunize a susceptible female patient against gonorrhea, in combination with a physiologically acceptable, non-toxic vehicle.